



FIELD VARIANCE FORM

DATE: 11-AUG-11 **PROJECT NAME:** Interim Action Ranges (IAR) Munitions Response Area (MRA) **PROJECT LOCATION:** Interim Action Ranges
APPLICABLE DOCUMENT / SECTION: Final Phase II Interim Action Work Plan, Interim Action Ranges Munitions Response Area, Former Fort Ord, dated May 24, 2011
SUBJECT: Design Study Enhancement for Range 47 Special Case Area – Berm

FIELD CHANGE CONDITION:

The Design Study that includes Range 47 (R47) Special Case Area (SCA) (Figure 1) began June 13, 2011, and transect and berm investigations were conducted in accordance with the Final Phase II Interim Action Work Plan for the Interim Action Ranges Munitions Response Area (IAR MRA). Figure 1 provides the location of the berm and investigation transects. Forty millimeter (40mm) high explosive (HE) munitions debris (MD) and 40mm HE unexploded ordnance (UXO), which are sensitively fuzed munitions, have been found during the Design Study in R47 SCA.

Visual reconnaissance and berm transect investigation by the ESCA RP Team indicates that the berm was probably created by the military during range maintenance operations in the 1960s or early 1970s when Range 47, a known 40mm grenade launcher training range, was active. Range maintenance at Range 47 appears to have involved soil grading to remove fired munitions from the range area and the stockpiling of the graded soil in berms at the range edge. Three 40mm HE UXO and more than 400 pounds of 40mm MD were found in the seven berm transects investigated during the Design Study operations. The area beneath the berm may have been part of the active range prior to range maintenance operations; therefore, further investigation is warranted to evaluate the potential presence of sensitively fuzed munitions beneath the berm as part of the Design Study.

RECOMMENDED APPROACH / CHANGE:

It is recommended that the R47 SCA berm be removed through excavation and sifting operations in accordance with the work plan as part of the Design Study for the following reasons:

- 40mm HE UXO and MD were found in the berm material during the Design Study
- To gain access to the original ground surface under the berm to evaluate whether or not the area was part of R47 training activities and, therefore, has the potential presence of 40mm HE UXO and MD

The recommended approach includes vegetation removal, excavation and sifting of the berm material, which covers approximately 1.2 acres of R47 SCA (approximately 7,500 cubic yards of soil), and conduct a digital geophysical survey and target investigation of the original ground surface. The approximately 1.2-acre area includes portions of sixteen 100-foot-by-100-foot grids (C2A6D5, C2A6D6, C2A6D7, C2A6D8, C2A6D9, C2A6C6, C2A6C7, C2A6C8, C2A6C9, C2A6C0, C2A6B8, C2A6B9, C2A6B0, C2A7B1, C2A6E5, and C2A7A1; Figure 1).

These operations will be conducted in accordance with the approved IAR MRA work plan.

IMPACT ON PRESENT AND COMPLETED WORK:

No impact to present or completed work.



REQUESTED BY: Kristie Reimer, ESCA Remediation Program Manager (ARCADIS)

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CLARIFICATION/FOR INFORMATION ONLY

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MINOR CHANGE

☒MAJOR CHANGE

ESCA RP TEAM APPROVALS: G. CLARK, L. TEMPLE, B. MOE

COMMENTS

ACKNOWLEDGED BY:**GREG CLARK**
ESCA RP UXO SAFETY
OFFICER (WESTON)
SIGNATURE11 Aug 2011
DATE**ACKNOWLEDGED BY:****BRUCE MOE**
ESCA RP SENIOR UXO
SUPERVISOR (WESTON)
SIGNATURE11 Aug 2011
DATE**ACKNOWLEDGED BY:****LINDA TEMPLE**
ESCA RP REMEDIATION
PROJECT MANAGER (WESTON)
SIGNATURE11 Aug 2011
DATE

FORA APPROVAL:

COMMENTS



APPROVED



REJECTED

STAN COOKFORA ESCA PROGRAM
MANAGER
SIGNATURE11 Aug 11
DATE

ATTACHMENTS:

Figure 1 – Interim Action Ranges MRA Range 47 SCA Berm Area

